



Sequence Listing

SEQUENCE LISTING

Weston, et al.

<120> MALE-STERILE BRASSICA PLANTS AND METHOD FOR PRODUCING SAME

<130> 514412-2020.1

<140> 09/698,903

<141> 2000-10-27

<150> 09/430,437

<151> 1999-10-29

<160> 14

<170> PatentIn version 3.0

<210> 1

<211> 5865

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(5865)

<223> DNA sequence of regions comprised between the T-DNA border repeat
s of plasmid pTC0113

<400> 1

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aattacaacg gtatatatcc tgccagtact cggccgtcga actcggccgt cgagtacatg      60
gtcgataaga aaaggcaatt tgtagatggt aattcccata ttgaaagaaa tatagttaa      120
atatttattg ataaaataac aagtcaggta ttatagtcca agcaaaaaca taaatttatt      180
gatgcaagtt taaattcaga aatatttcaa taactgatta tatcagctgg tacattgccg      240
tagatgaaag actgagtgcg atattatgtg taatacataa attgatgata tagctagctt      300
agctcatcgg gggatcctag aacgcgtgat ctcatctc ggtgacggg aggaccggac      360
ggggcggtac cggcaggctg aagtccagct gccagaaacc cacgtcatgc cagttcccgt      420
gcttgaagcc ggccgcccgc agcatgccgc ggggggcata tccgagcgc tcgtgcatgc      480
gcacgctcgg gtcgttgggc agcccgatga cagcgaccac gctcttgaag ccctgtgcct      540
ccagggactt cagcaggtgg gtgtagagcg tggagcccag tcccgtccgc tgggtggcgg      600
gggagacgta cacggtcgac tcggccgtcc agtcgtaggc gttgcgtgcc ttccaggggc      660
ccgcgtaggc gatgccggcg acctcgccgt ccacctcggc gacgagccag ggatagcgct      720
cccgcagacg gacgaggtcg tccgtccact cctgcggttc ctgaggctcg gtacggaagt      780
tgaccgtgct tgtctcgatg tagtggttga cgatggtgca gaccgccggc atgtccgct      840
cgggtggcacg gcggatgtcg gccgggcgtc gttctgggtc cattgttctt ctttactctt      900
tgtgtgactg aggtttggtc tagtgctttg gtcacttata tataatgata acaacaatga      960
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gaacaagctt tggagtgatc ggaggggtcta ggatacatga gattcaagtg gactaggatc	1020
tacaccgttg gattttgagt gtggatatgt gtgagggttaa ttttacttgg taacggccac	1080
aaaggcctaa ggagaggtgt tgagaccctt atcggttga accgctggaa taatgccacg	1140
tggaagataa ttccatgaat cttatogtta tctatgagtg aaattgtgtg atgggtggagt	1200
ggtgcttget cattttactt gcttgggtga cttggccctt tcttatggg gaatttatat	1260
tttacttact atagagcttt catacctttt ttttaccttg gatttagtta atatataatg	1320
gtatgattca tgaataaaaa tgggaaattt ttgaatttgt actgctaaat gcataagatt	1380
aggtgaaact gtggaatata tatttttttc atttaaaagc aaaatttgcc ttttactaga	1440
attataaata tagaaaaata tataacattc aaataaaaaat gaaaataaga actttcaaaa	1500
aacagaacta tgtttaatgt gtaaagatta gtcgcacatc aagtcactctg ttacaatatg	1560
ttacaacaag tcataagccc aacaaagtta gcacgtctaa ataaactaaa gagtccacga	1620
aaatattaca aatcataagc ccaacaaagt tattgatcaa aaaaaaaaaa cgcccaacaa	1680
agctaaacaa agtccaaaaa aaactttctca agtctccatc ttcctttatg aacattgaaa	1740
actatacaca aaacaagtca gataaatctc tttctgggcc tgtcttcca acctcctaca	1800
tcacttcctt atcggtatga atgttttact tgtacctttt cgttgcaat gatattgata	1860
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agattttccg agagctttct agtagaaagc ccatcaccag aaatttacta gtaaaataaa	1980
tcaccaatta ggtttcttat tatgtgccaa attcaatata attatagagg atatttcaaa	2040
tgaaaacgta tgaatgttat tagtaaattg tcaggtaaga cattaataaa atcctacgtc	2100
agatattcaa ctttaaaaat tcgatcagtg tggaattgta caaaaatttg ggatctacta	2160
tatatatata atgctttaca acacttggat ttttttttgg aggctggaat ttttaattca	2220
catatttggt ttggccatgc accaactcat tgtttagtgt aatactttga ttttgtcaaa	2280
tatatgtgtt cgtgtatatt tgtataagaa tttctttgac catatacaca cacacatata	2340
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gtaatgaaaa atataatcta ttgctgaaat tatctcagat gttaagattt tcttaaagta	2520
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cggtaaccgg ggatcttccc gatctagtaa catagatgac accgcgcgcg ataatttata	2700
ctagtttgcg cgctatattt tgttttctat cgcgtattaa atgtataatt gcgggactct	2760
aatcataaaa acccatctca taaataacgt catgcattac atgttaatta ttacatgctt	2820
aacgtaattc aacagaaatt atatgataat catcgcaaga ccggcaacag gattcaatct	2880

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taagaaactt tattgccaaa tgtttgaacg atctgcttcg gatcctctag agccggaag	2940
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aaaacggcct ccgcaggaag ccgttttttt cgttatctga tttttgtaaa ggtctgataa	3060
tggtccgttg ttttgtaaat cagccagtcg cttgagtaaa gaatccggtc tgaatttctg	3120
aagcctgatg tatagttaat atccgcttca cgccatgttc gtccgctttt gcccgggagt	3180
ttgccttccc tgtttgagaa gatgtctccg ccgatgcttt tccccggagc gacgtctgca	3240
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tcaggtagct tatgatatgt ctgaagataa tccgcaacc cgtcaaactg gttgataacc	3360
ggtaccatgg tagctaattt ctttaagtaa aaactttgat ttgagtgatg atgttgact	3420
gttaccttg caccacaagg gcatatatag agcacaagac atacacaaca acttgcaaaa	3480
ctaacttttg ttggagcatt tcgaggaaaa tggggagtag caggctaata tgagggtaac	3540
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aaattttgtc tcaccctgat ttcagttatg gaaattacat tatgaagctg tgctagagaa	3660
gatgtttatt ctagtccagc caccacactt atgcaagtct gcttttagct tgattcaaaa	3720
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gtcaattgtc ccttcttggt tggcactata ttcaatctgt taatgcaaat tatccagtta	3900
tacttagcta gatatccaat tttgaataaa aatagctctt gattagtaaa ccgatagtg	3960
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acagattgtt acatggaaaa caaaaagtc tctgatagaa gtgcgaaagt atcacaattt	4140
tctatcgaga gatagattga aagaagtgca gggaagcggc taactggaac ataacacaat	4200
gtctaaatta attgcattcg ctaacaaaaa agtgtattac tctctccggc ccacaataag	4260
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gaaagtatat aaatatatat ttggaagcga ctaaaaaata acttttctca tattatacga	4560
acctaaaaac agcatatggt agtttctagg gaatctaaat cactaaaatt aataaaagaa	4620
gcaacaagta tcaatacata tgatttacac cgtcaaacac gaaattcgta aatatttaat	4680
ataataaaga attaatacaa atagcctccc accctataac ttaaactaaa aataaccagc	4740

Sequence Listing

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gaatgtatat tatatgcata atttatatat taaatgtgta taatcatgta taatcaatgt 4800
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aatccctaata ataatcgcgga cggatccccg ggaattccgg ggaagcttag atccatgcag 4920
atctgatcat gagcggagaa ttaagggagt cacgttatga ccccgccga tgacgcggga 4980
caagccgttt tacgtttgga actgacagaa ccgcaacgat tgaaggagcc actcagccgc 5040
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gcttggacta taatacctga cttgttattt tatcaataaa tatttaaact atatttcttt 5760
caagatggga attaacatct acaaattgcc ttttcttctc gaccatgtac atcgagctct 5820
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<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

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<220>
<221> misc_feature
<222> (1)..(21)
<223> primer MDB355

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<400> 2
gtaacataga tgacaccgcg c 21

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```

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

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<220>
<221> misc_feature
<222> (1)..(21)
<223> primer MLD008

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21

<210> 4
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(15)
<223> primer MDB285

<220>
<221> variation
<222> (6)..(6)
<223> "s" can be either g or c

<220>
<221> variation
<222> (1)..(1)
<223> "n" can be any nucleotide a, c or t

<220>
<221> variation
<222> (8)..(8)
<223> "w" can be either a or t(u)

<220>
<221> variation
<222> (12)..(12)
<223> "w" can be either a or t(u)

<220>
<221> variation
<222> (10)..(10)
<223> "s" can be either g or c

<400> 4
ntcgastwts gwggtt

15

<210> 5
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(25)
<223> MDB251

<400> 5

Sequence Listing

ggatcccccg atgagctaag ctagc 25

<210> 6
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(22)
<223> primer MDB193

<400> 6
tcattctacgg caatgtacca gc 22

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> MDB258

<400> 7
ctacggcaat gtaccagctg 20

<210> 8
<211> 415
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(415)
<223> right (5') border flanking region of elite event MS-B2

<400> 8
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tacggatgag aacaactcac aagcattaat catgttcata taaatatatg tacattatac 120
gtatatatac acgtatacaa atagtagcga agaaatccat gtaaagcagc agggggcacc 180
atggtttcaa gtattatata attataatta taattatggt aggatgtaca tggccgataa 240
gaaaggcaa tttgtagatg ttaattccca tcttgaaaga aatatagttt aatatattat 300
tgataaaata acaagtcagg tattatagtc caagcaaaaa cataaattta ttgatgcaag 360
tttaaattca gaaatatttc aataactgat tatatcagct ggtacattgc cgtag 415

<210> 9
<211> 24
<212> DNA

Sequence Listing

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(24)

<223> primer MDB8

<400> 9

tcagaagtat cagcgacctc cacc

24

<210> 10

<211> 416

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(416)

<223> left (3') border flanking region of the elite event MS-B2

<400> 10

ctacggcaat gtaccagctg atataatcag ttattgaaat atttctgaat ttaaacttgc

60

atcaataaaw ttatgttttt gcttggaacta taatacctga cttgttattt tatcaataaa

120

tattttaaact atatttcttt caagatggga attaacatct acaaattgcc ttttcttattc

180

gaccatgtac atcctacat aattataatt ataattatat aatctgaaa ccatgggtgcc

240

ccctgctgct ttacatggat ttctcgccta ctatttgat acgtgtatat ataccgtata

300

atgtacatat atttatatga acatgattaa tgcttgtag ttgttctcat ccgtaagagt

360

ttcaatatgt aatgggtgaag agtcaaaaacc caaaatcatg aacacccaaa ctgat

416

<210> 11

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(23)

<223> primer MDB371

<400> 11

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<210> 12

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<212> DNA

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<220>

<221> misc_feature

<222> (1)..(21)

<223> primer MDB201

<400> 12
gcttggacta taatacttga c

21

<210> 13
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(22)
<223> primer CVZ7(B01)

<400> 13
aacgagtgtc agctagacca gc

22

<210> 14
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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<222> (1)..(22)
<223> primer CVZ8 (B02)

<400> 14
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22